TA-FE700R/FE900R

SERVICE MANUAL

AEP Model

Photo : TA-FE700R

SPECIFICATIONS

Amplifier section

DIN power output
TA-FE900R: 100 W + 100 W (4 ohms at 1 kHz)
70 W + 70 W (8 ohms at 1 kHz)
TA-FE700R: 90 W + 90 W (4 ohms at 1 kHz)
60 W + 60 W (8 ohms at 1 kHz)

Total harmonic distortion
Less than 0.008% (at 10 W output)

Frequency response
PHONO (20 Hz - 20 kHz): RIAA equalization curve ±0.5 dB
TUNER, CD AUX
TAPE1/DAT, TAPE2/MD
7Hz – 100kHz +0, – 3dB

S/N (network A)
PHONO
94 dB
TUNER, CD, AUX
TAPE1/DAT, TAPE2/MD: 105 dB

Output voltage / impedance
REC OUT
150 mV, 1 kilohm
PHONES
10 mW (at 8 ohms)

Speakers impedance
4 - 16 ohms, 8 - 16 ohms (SPEAKERS A+B)

Damping factor
100 (8 ohms, 1 kHz)

General

System
Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled
Preamplifier: Low-noise, equalizer amplifier

Power requirements
220 - 230 V AC, 50/60 Hz

Power consumption
TA-FE900R: 220 W
TA-FE700R: 200 W

Dimensions (approx.) (w/h/d)
430 × 135 × 365 mm
incl. projecting parts and controls

Mass (approx.)
TA-FE900R: 7.0 kg
TA-FE700R: 6.8 kg

Supplied accessories

Remote commander (remote) (1)
RM-S316
Sony batteries SUM-3 (NS) (2)

Design and specifications are subject to change without notice.

INTEGRATED STEREO AMPLIFIER

SONY®

TABLE OF CONTENTS

Specification 1

1. GENERAL 3

2. ELECTRICAL ADJUSTMENTS 5

3. EXPLANATION OF IC TERMINALS 6

4. DIAGRAMS

4-1. Circuit Boards Location 7
4-2. Printed Wiring Boards – MAIN SECTION – 8
4-3. Schematic Diagram – MAIN SECTION – 13
4-4. Printed Wiring Boards – PANEL SECTION – 18
4-5. Schematic Diagram – PANEL SECTION – 21

5. EXPLODED VIEWS

5-1. Front Panel Section 24
5-2. Chassis Section 25

6. ELECTRICAL PARTS LIST 26

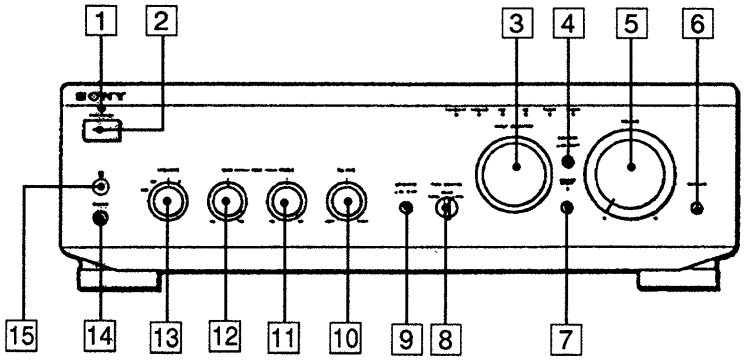
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

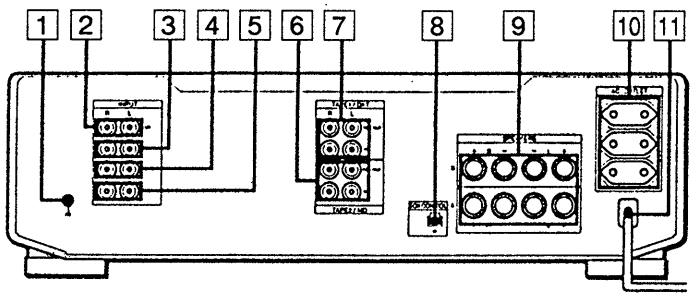
IDENTIFYING THE PARTS AND CONTOROLS

Front Panel



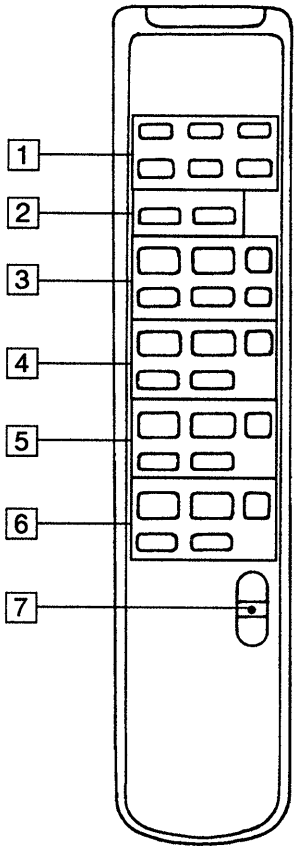
1 PROTECTION indicator
2 POWER switch
3 INPUT SELECTOR and indicators
4 SUBSONIC switch
5 VOLUME control
6 EON LINK switch and indicator
7 SOURCE DIRECT switch and indicator
8 TAPE MONITOR switch
9 LOUDNESS switch
10 BALANCE control
11 TREBLE control
12 BASS control
13 SPEAKERS switch
14 PHONES jack
15 Remote control sensor

Rear Panel



1 ⏚ (earth)
2 AUX
3 CD
4 TUNER
5 PHONO
6 TAPE2/MD
7 TAPE1/DAT
8 EON CONTROL IN
9 SPEAKER A/B
10 AC OUTLET
11 Mains lead

Remote (RM-S316)



1 FUNCTION buttons
2 PRESET +, − buttons
3 CD control buttons
4 MD control buttons
5 TAPE DECK A control buttons
6 TAPE DECK B control buttons
7 VOL +, − buttons

SECTION 2
ELECTRICAL ADJUSTMENTS

Note :

1. DC BIAS adjustments should be made 30 seconds after the POWER switch is turned on (POWER ON).
2. After replacing the power transistors, DC BIAS adjustments should be made.

DC Bias Adjustment (with no signal input)

Setting :

Volume ··· minimum

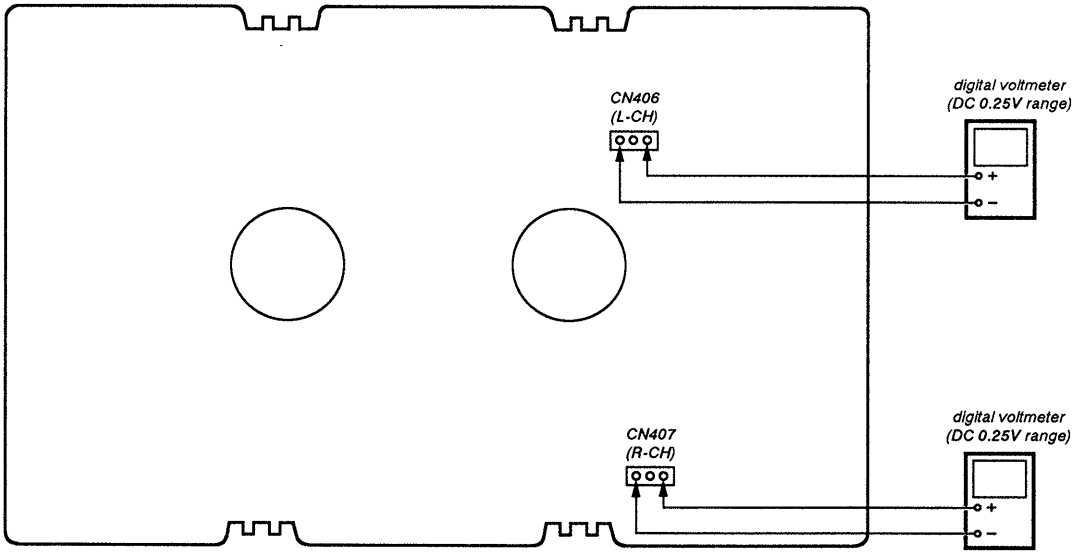
Procedure :

Adjust RV301 (L-ch) and RV351 (R-ch) so that the voltages across CN406 and CN407 become within the adjustment values.

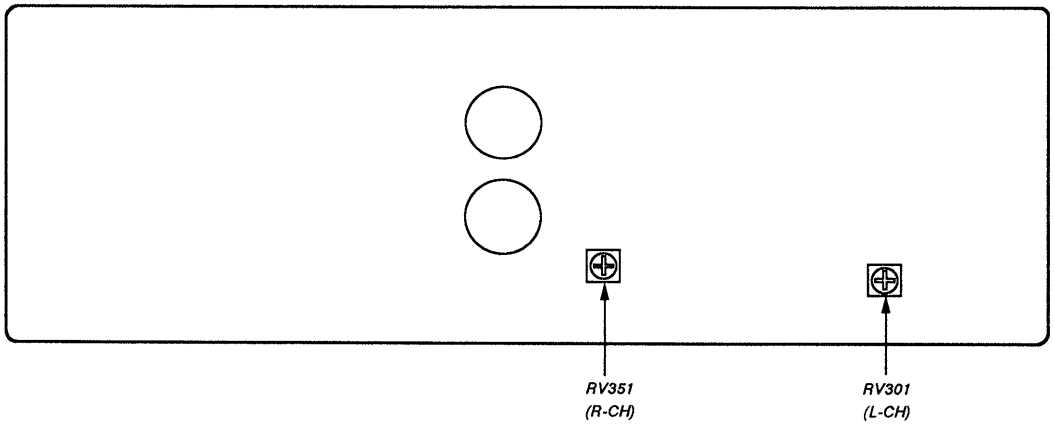
Adjustment Value : 10mV ± 2mV

Adjustment Location :

【MAIN (B) BOARD】 – Component side –



【MAIN (A) BOARD】 – Component side –



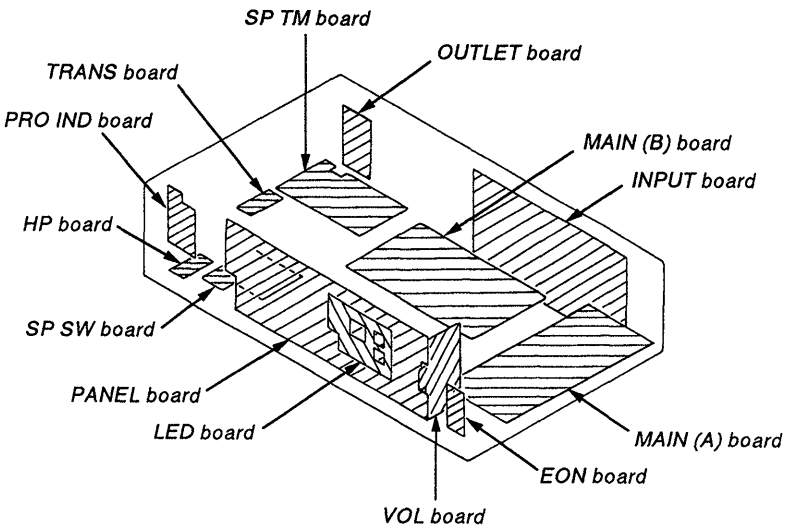
SECTION 3
EXPLANATION OF IC TERMINALS

IC902 TMP47C103N-JP47

Pin No.	Pin name	I/O	Description
1	XOUT	–	System clock. (4MHz)
2	XIN	–	System clock. (4MHz)
3	RESET	I	Reset signal input terminal.
4	PMD	–	Not used. (Ground connection)
5	VOL +	O	Volume motor control terminal.
6	VOL –	O	Volume motor control terminal.
7	SW0	I	Relative position detection signal of rotary switch.
8	SW1	I	Relative position detection signal of rotary switch.
9	SW2	I	Relative position detection signal of rotary switch.
10	EON	I	EON signal input terminal.
11	PHONO	O	Function LED drive signal.
12	TUENR	O	Function LED drive signal.
13	CD	O	Function LED drive signal.
14	GND	–	Ground.
15	AUX	O	Function LED drive signal.
16	MD/DAT	O	Function LED drive signal.
17	TAPE	O	Function LED drive signal.
18	MON	–	Not used. (Ground connection)
19	PRY	I	EON control signal input.
20	PKY	–	Not used. (Ground connection)
21	MOI	–	Not used. (Ground connection)
22	SIRCS	I	SIRCS signal input terminal.
23	MUTE	–	Not used. (Ground connection)
24	SCE	–	Not used. (Ground connection)
25	SDT	–	Not used. (Ground connection)
26	SCK	–	Not used. (Ground connection)
27	STOP	I	Power ON/OFF input.
28	+3V	–	Power supply (+3V) terminal.

SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



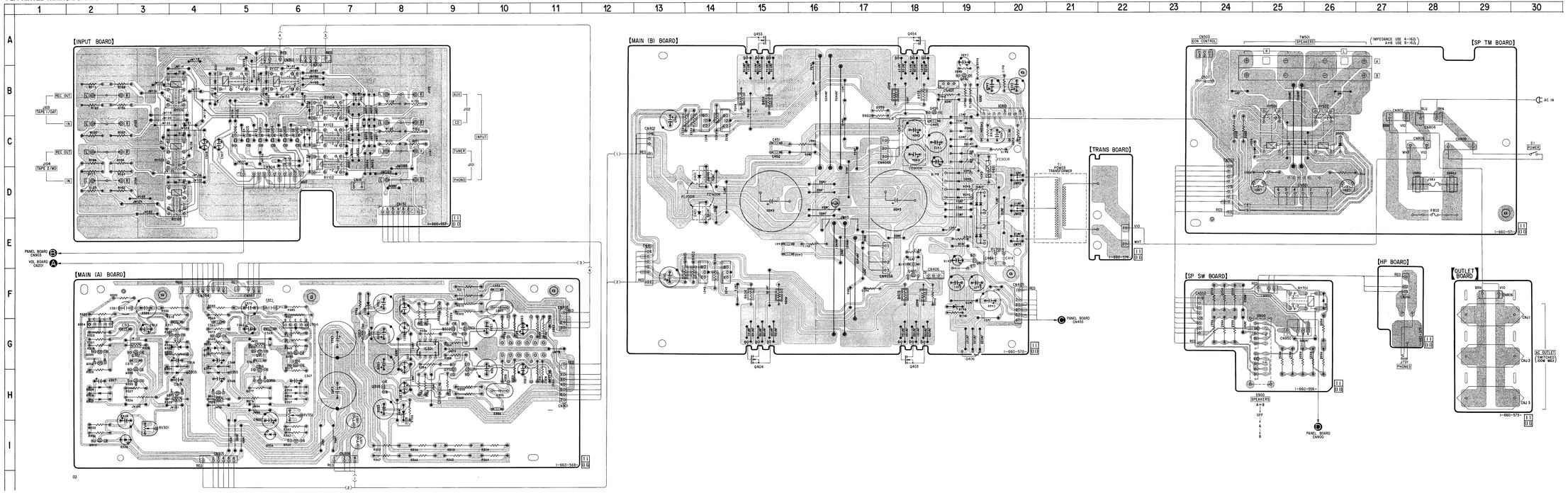
4-2. PRINTED WIRING BOARDS — MAIN SECTION —

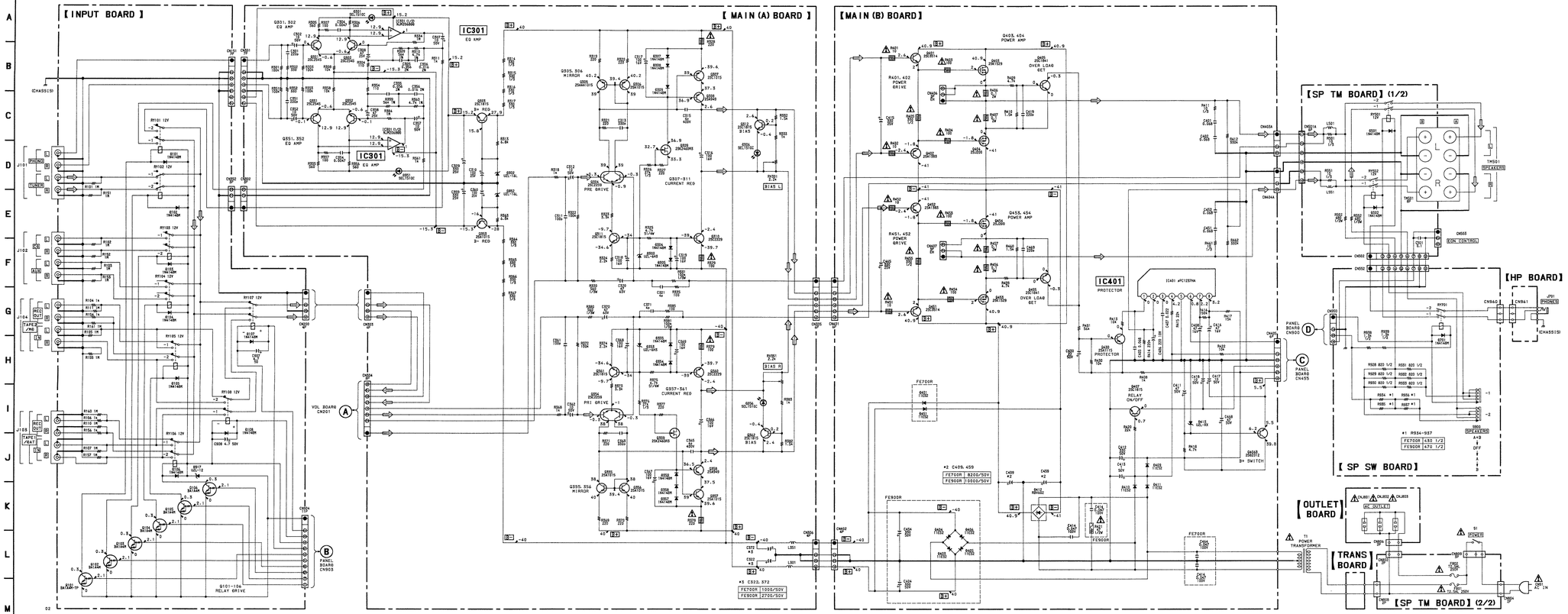
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	B-4	Q101	C-5
D102	C-6	Q102	C-6
D103	C-6	Q103	C-6
D104	B-6	Q104	C-5
D105	D-4	Q105	C-5
D108	B-4	Q106	C-5
D107	B-5	Q301	G-9
D108	C-4	Q302	G-9
D301	G-8	Q303	H-8
D302	H-8	Q304	G-2
D303	G-4	Q305	G-2
D304	G-4	Q306	G-2
D305	H-4	Q307	G-3
D306	I-3	Q308	H-3
D307	H-2	Q309	H-3
D308	H-2	Q310	H-4
D309	H-2	Q311	G-4
D351	G-8	Q312	I-2
D352	F-7	Q351	G-9
D353	G-4	Q352	G-9
D354	G-4	Q353	G-7
D355	H-5	Q354	G-6
D356	I-5	Q355	G-6
D357	H-6	Q356	G-6
D358	H-6	Q357	G-5
D359	H-6	Q358	G-5
D401	D-14	Q359	H-5
D403	D-19	Q360	H-4
D404	D-19	Q361	G-4
D405	D-19	Q362	I-6
D406	D-19	Q401	F-14
D409	C-19	Q402	F-14
D410	C-19	Q403	G-18
D411	C-19	Q404	G-15
D412	D-19	Q405	F-18
D413	F-19	Q406	G-19
D451	D-14	Q407	E-19
D501	C-25	Q430	B-19
D502	C-26	Q451	C-14
D701	F-26	Q452	C-14
D917	C-6	Q453	A-15
		Q454	A-18
		Q455	B-18
IC301	G-8		
IC401	B-20		

Note:

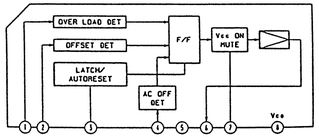
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.





● IC BLOCK DIAGRAM – MAIN SECTION –

IC401 μPC1237HA



Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- : B+ Line
- : B – Line
- : adjustment for repair.
- Voltage is dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.

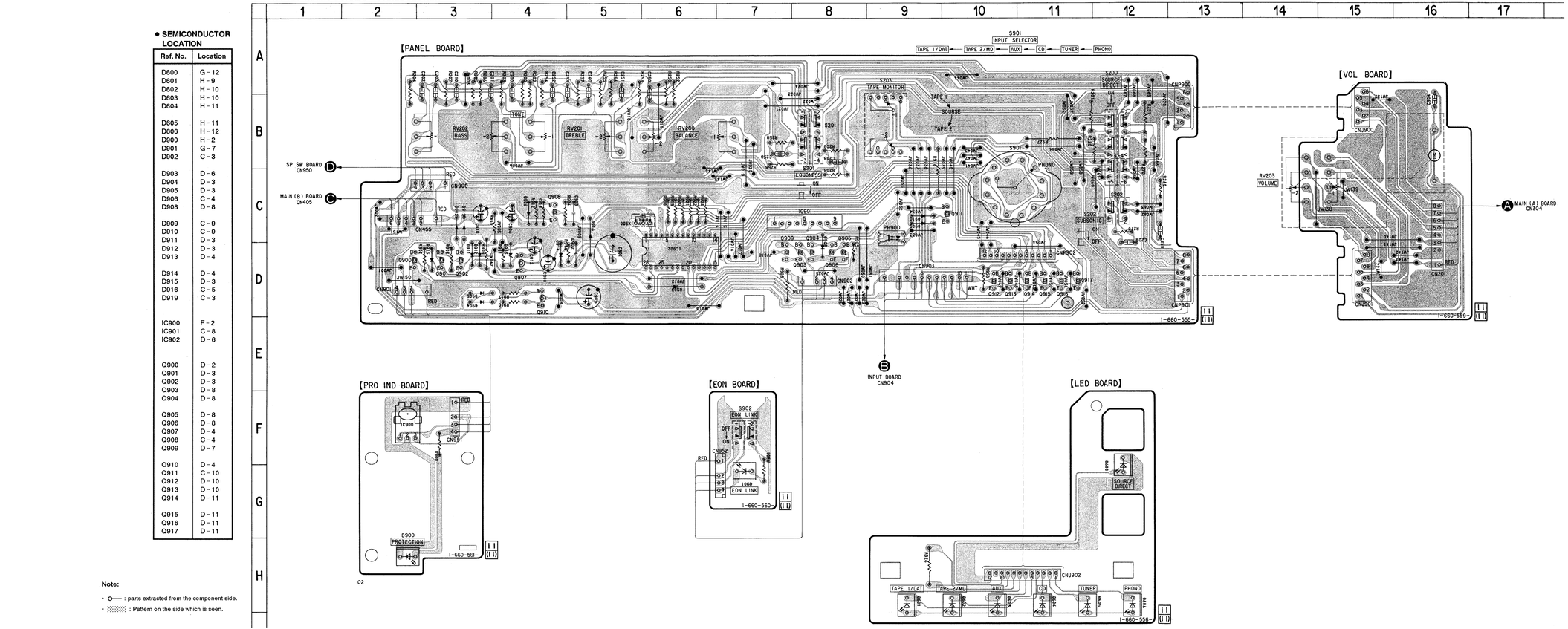
4-4. PRINTED WIRING BOARDS – PANEL SECTION

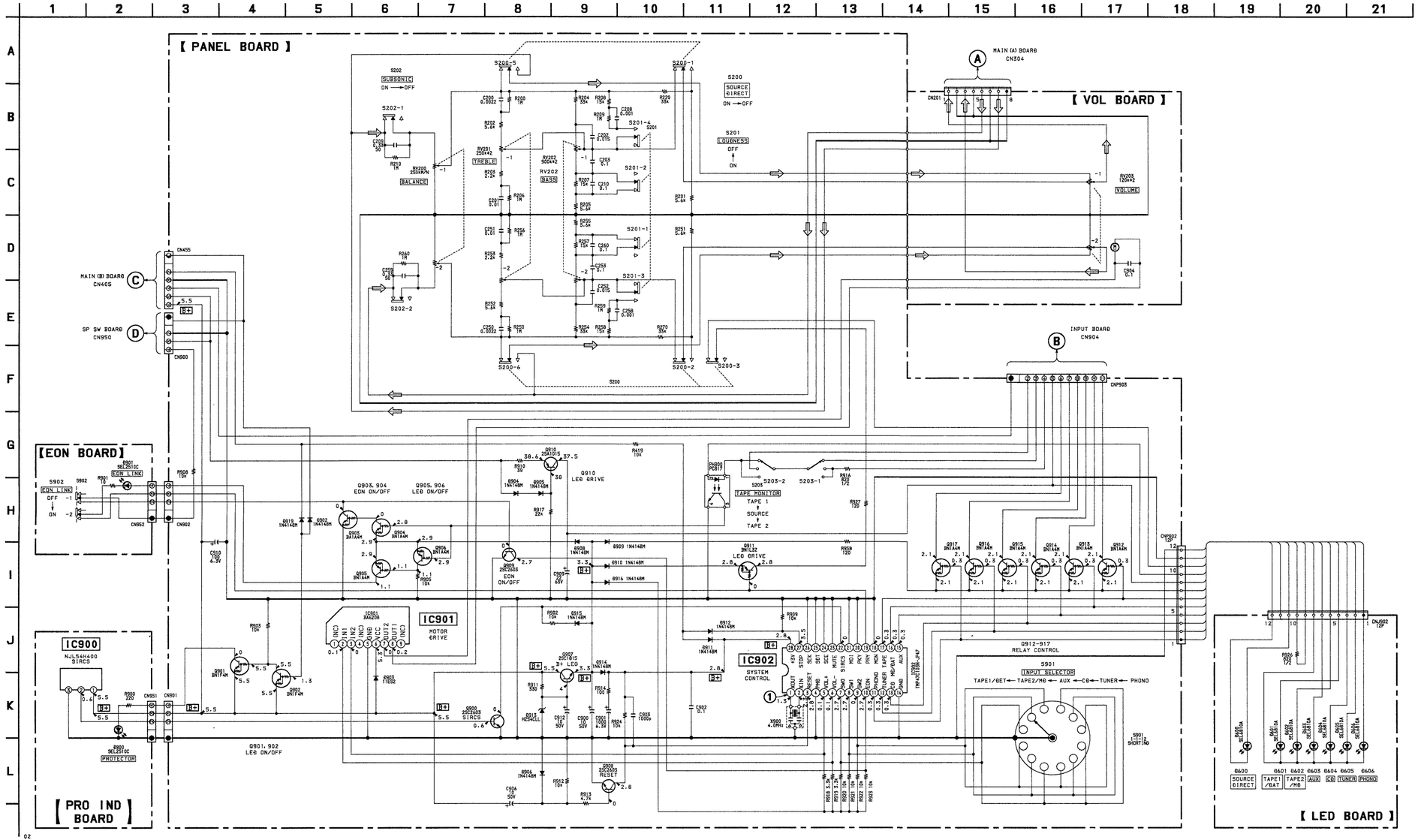
● SEMICONDUCTOR LOCATION

Ref. No.	Location
D600	G-12
D601	H-9
D602	H-10
D603	H-10
D604	H-11
D605	H-11
D606	H-12
D900	H-2
D901	G-7
D902	C-3
D903	D-6
D904	D-3
D905	D-3
D906	C-4
D908	D-8
D909	C-9
D910	C-9
D911	D-3
D912	D-3
D913	D-4
D914	D-4
D915	D-3
D916	C-5
D919	C-3
IC900	F-2
IC901	C-8
IC902	D-6
Q900	D-2
Q901	D-3
Q902	D-3
Q903	D-8
Q904	D-8
Q905	D-8
Q906	D-8
Q907	D-4
Q908	C-4
Q909	D-7
Q910	D-4
Q911	C-10
Q912	D-10
Q913	D-10
Q914	D-11
Q915	D-11
Q916	D-11
Q917	D-11

Note:

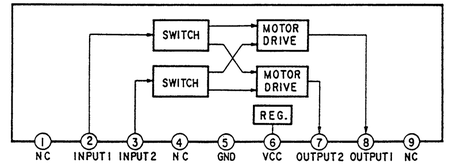
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.



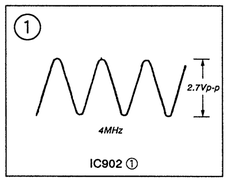


● IC BLOCK DIAGRAM – PANEL SECTION –

IC901 BA6208



● WAVEFORM



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

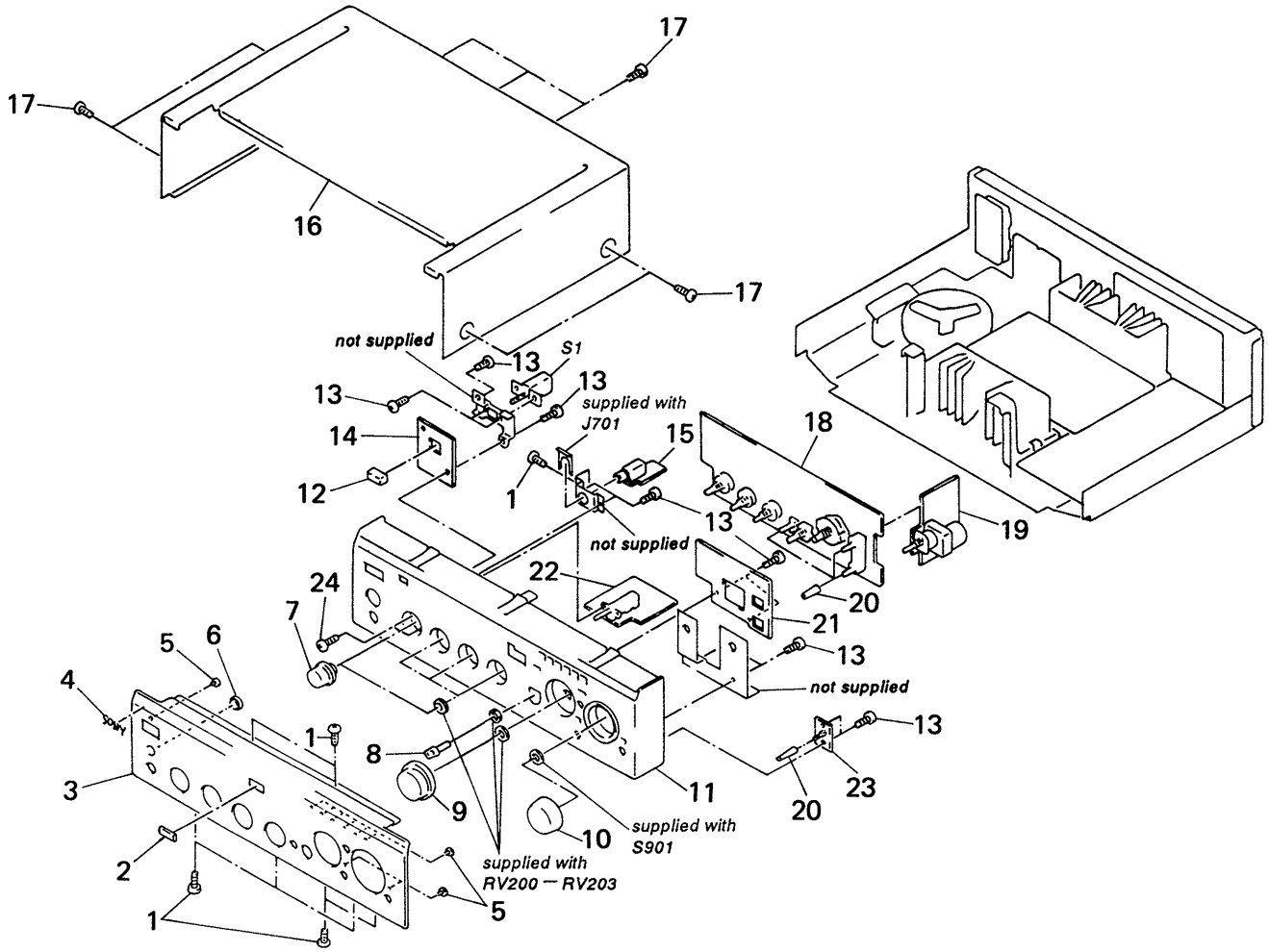
SECTION 5
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

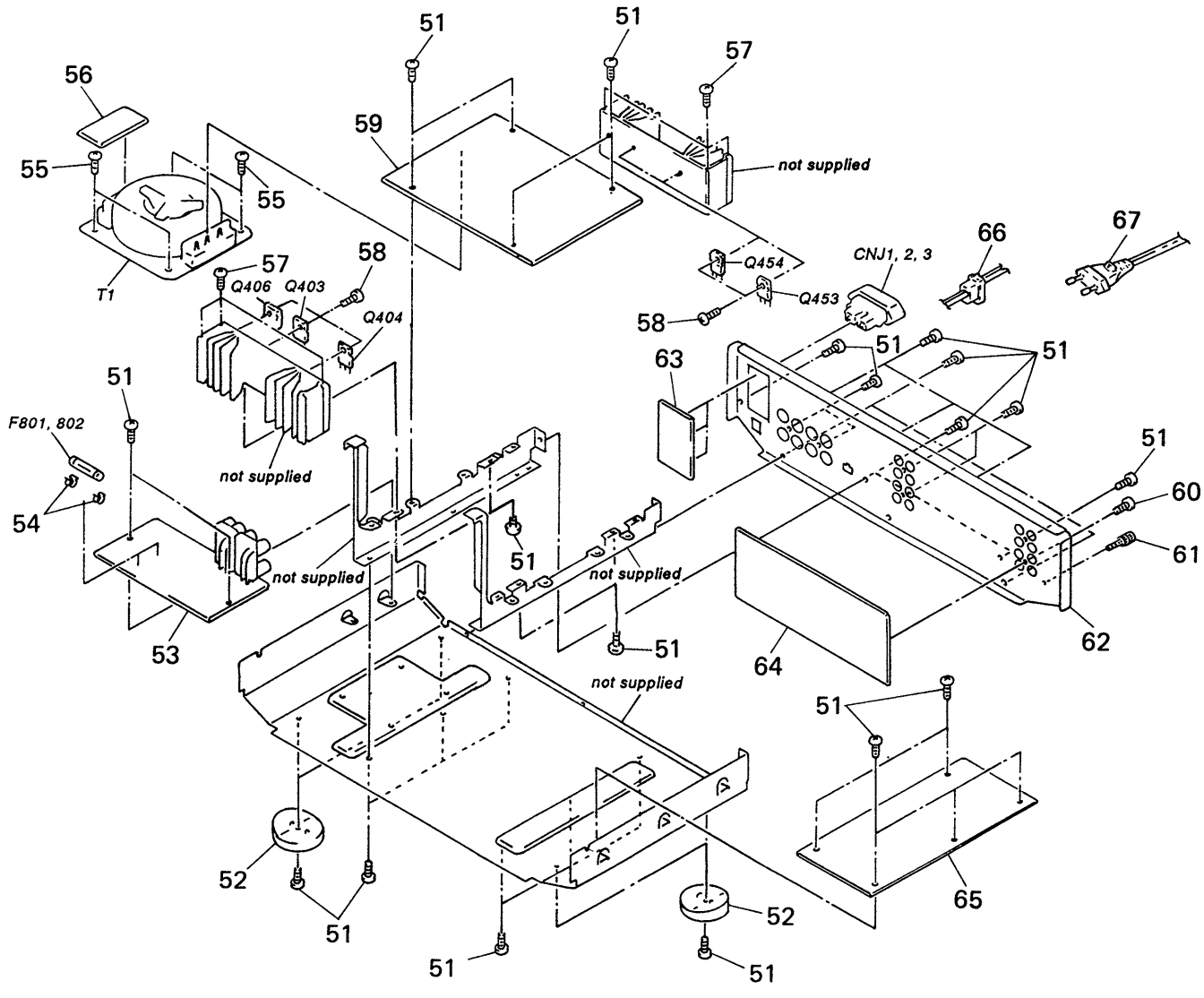
5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-967-961-01	SCREW (3X8)	
2	4-965-651-01	EMBLEM (MOS)	
3	4-980-766-01	PANEL, FRONT (FE900R)	
3	4-980-766-11	PANEL, FRONT (FE700R)	
4	4-979-587-01	EMBLEM, SONY	
5	4-980-775-01	LENS, LED	
6	4-980-776-01	WINDOW, REMOTE CONTROL	
7	4-980-204-01	KNOB (DIA. 24)	
8	4-980-774-01	KNOB (DIA. 11)	
9	4-980-771-01	KNOB (DIA. 47)	
10	X-4946-920-1	KNOB (VOL) ASSY	
11	X-4946-916-1	PANEL ASSY, BASE	
12	4-980-199-01	BUTTON (POWER)	
13	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
* 14	1-660-561-11	PRO IND BOARD	
* 15	1-662-375-11	HP BOARD	
16	4-979-945-41	CASE (412032) (FE700R)	
16	4-983-899-11	CASE (FE900R)	
17	3-704-366-01	SCREW (CASE) (M3X8)	
* 18	A-4389-812-A	PANEL BOARD, COMPLETE	
* 19	1-660-559-11	VOL BOARD	
20	4-980-773-01	BUTTON (DIA. 6)	
* 21	1-660-556-11	LED BOARD	
* 22	1-660-558-11	SP SW BOARD	
* 23	1-660-560-11	EON BOARD	
24	7-682-548-04	SCREW +BVTT 3X8 (S)	
⚠S1	1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	

5-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
51	4-967-961-01	SCREW (3X8)	
52	X-4947-025-1	FOOT ASSY	
* 53	1-660-571-11	SP TM BOARD	
54	1-533-233-11	HOLDER, FUSE	
55	4-967-960-01	SCREW (4X8)	
* 56	1-660-574-11	TRANS BOARD	
57	4-981-016-11	SCREW (H) (FE700R)	
57	4-981-016-21	SCREW (H) (FE900R)	
58	3-905-609-11	SCREW (TRANSISTOR)	
* 59	A-4389-803-A	MAIN (B) BOARD, COMPLETE (FE700R)	
* 59	A-4389-807-A	MAIN (B) BOARD, COMPLETE (FE900R)	
60	3-704-515-41	SCREW (BV/RING)	
61	4-947-010-01	SCREW, FEEDER FIXED	
* 62	4-980-768-11	PANEL, BACK (FE700R)	
* 62	4-982-977-01	PANEL, BACK (FE900R)	
* 63	1-660-573-11	OUTLET BOARD	
* 64	1-660-557-11	INPUT BOARD	

Ref. No.	Part No.	Description	Remark
* 65	A-4389-802-A	MAIN (A) BOARD, COMPLETE (FE700R)	
* 65	A-4389-806-A	MAIN (A) BOARD, COMPLETE (FE900R)	
* 66	3-703-244-00	BUSHING (2104), CORD	
⚠67	1-777-185-11	CORD, POWER	
⚠CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠F801	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
⚠F802	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
Q403	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q404	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q406	8-729-209-15	TRANSISTOR 2SD2012	
Q453	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q454	8-729-232-46	TRANSISTOR 2SJ200-Y	
⚠T1	1-429-490-11	TRANSFORMER, POWER (FE900R)	
⚠T1	1-429-491-11	TRANSFORMER, POWER (FE700R)	

EON HP INPUT

SECTION 6
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  G : German

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-660-560-11	EON BOARD			
		**********			
		< CONNECTOR >			
CN952	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
		< DIODE >			
D901	8-719-313-72	LED SEL3810A-CD (EON LINK)			
		< RESISTOR >			
R901	1-249-393-11	CARBON	10	5%	1/4W
		< SWITCH >			
S902	1-571-112-21	SWITCH, PUSH (1 KEY) (EON LINK)			
**********					
*	1-662-375-11	HP BOARD			
		*********			
		< CONNECTOR >			
CN961	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< JACK >			
J701	1-750-735-11	JACK (LARGE TYPE)(PHONES)			
**********					
*	1-660-557-11	INPUT BOARD			
		**********			
		< CAPACITOR >			
C907	1-126-963-11	ELECT	4.7uF	20%	50V
C908	1-126-963-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
CN16	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CN200	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			

Ref. No.	Part No.	Description			Remark
CN904	1-691-773-11	PLUG (MICRO CONNECTOR) 11P			
		< DIODE >			
D101	8-719-987-63	DIODE 1N4148M			
D102	8-719-987-63	DIODE 1N4148M			
D103	8-719-987-63	DIODE 1N4148M			
D104	8-719-987-63	DIODE 1N4148M			
D105	8-719-987-63	DIODE 1N4148M			
D106	8-719-987-63	DIODE 1N4148M			
D107	8-719-987-63	DIODE 1N4148M			
D108	8-719-987-63	DIODE 1N4148M			
D917	8-719-001-76	DIODE UZL-12M3			
		< JACK >			
* J101	1-573-142-11	JACK, PIN 4P (TUNER/PHONE)			
* J102	1-573-142-21	JACK, PIN 4P (AUX, CD)			
* J103	1-573-142-21	JACK, PIN 4P (TAPE 1/DAT)			
* J104	1-573-142-21	JACK, PIN 4P (TAPE 2/MD)			
		< TRANSISTOR >			
Q101	8-729-900-80	TRANSISTOR DTC114ES			
Q102	8-729-900-80	TRANSISTOR DTC114ES			
Q103	8-729-900-80	TRANSISTOR DTC114ES			
Q104	8-729-900-80	TRANSISTOR DTC114ES			
Q105	8-729-900-80	TRANSISTOR DTC114ES			
Q106	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R101	1-249-995-11	CARBON	1M	5%	1/4W
R102	1-249-995-11	CARBON	1M	5%	1/4W
R103	1-249-995-11	CARBON	1M	5%	1/4W
R104	1-247-713-11	CARBON	1K	5%	1/4W
R105	1-249-995-11	CARBON	1M	5%	1/4W
R106	1-247-713-11	CARBON	1K	5%	1/4W
R107	1-249-995-11	CARBON	1M	5%	1/4W
R110	1-249-995-11	CARBON	1M	5%	1/4W
R111	1-249-995-11	CARBON	1M	5%	1/4W

Ref. No.	Part No.	Description			Remark
R151	1-249-995-11	CARBON	1M	5%	1/4W
R152	1-249-995-11	CARBON	1M	5%	1/4W
R153	1-249-995-11	CARBON	1M	5%	1/4W
R154	1-247-713-11	CARBON	1K	5%	1/4W
R155	1-249-995-11	CARBON	1M	5%	1/4W
R156	1-247-713-11	CARBON	1K	5%	1/4W
R157	1-249-995-11	CARBON	1M	5%	1/4W
R160	1-249-995-11	CARBON	1M	5%	1/4W
R161	1-249-995-11	CARBON	1M	5%	1/4W
		< RELAY >			
RY101	1-515-614-11	RELAY			
RY102	1-515-614-11	RELAY			
RY103	1-515-614-11	RELAY			
RY104	1-515-614-11	RELAY			
RY105	1-515-614-11	RELAY			
RY106	1-515-614-11	RELAY			
RY107	1-515-614-11	RELAY			
RY108	1-515-614-11	RELAY			
**********					
*	1-660-556-11	LED BOARD			
		**********			
		< CONNECTOR>			
CNJ902	1-766-796-11	CONNECTOR, BOARD TO BOARD 12P			
		< DIODE >			
D600	8-719-313-72	LED SEL3810A-CD (SOURCE DIRECT)			
D601	8-719-313-72	LED SEL3810A-CD (TAPE 1/DAT)			
D602	8-719-313-72	LED SEL3810A-CD (TAPE 2/MD)			
D603	8-719-313-72	LED SEL3810A-CD (AUX)			
D604	8-719-313-72	LED SEL3810A-CD (CD)			
D605	8-719-313-72	LED SEL3810A-CD (TUNER)			
D606	8-719-313-72	LED SEL3810A-CD (PHONO)			
		< RESISTOR >			
R926	1-247-751-11	CARBON	820	5%	1/2W
**********					
*	A-4389-802-A	MAIN (A) BOARD, COMPLETE (FE700R)			
*	A-4389-806-A	MAIN (A) BOARD, COMPLETE (FE900R)			
		**********			
		< CAPACITOR >			
C301	1-102-978-00	CERAMIC	220PF	5%	50V
C302	1-126-059-11	ELECT	10uF	20%	50V
C304	1-106-359-00	MYLAR	4700PF	5%	200V
C305	1-136-162-00	FILM	0.056uF	5%	50V (FE700R)
C305	1-130-341-00	FILM	0.056uF	3%	100V (FE900R)

Ref. No.	Part No.	Description			Remark
C306	1-137-471-11	FILM	0.016uF	5%	50V (FE700R)
C306	1-130-971-00	FILM	0.016uF	3%	100V (FE900R)
C307	1-126-059-11	ELECT	10uF	20%	50V
C308	1-126-022-11	ELECT	47uF	20%	25V
C309	1-126-025-11	ELECT	330uF	20%	25V
C310	1-126-023-11	ELECT	100uF	20%	25V
C311	1-102-973-00	CERAMIC	100PF	5%	50V
C312	1-126-059-11	ELECT	10uF	20%	50V
C313	1-164-079-11	CERAMIC	330PF	10%	50V (FE700R)
C313	1-104-290-11	POLYSTYRENE	330PF	5%	50V (FE900R)
C315	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C316	1-126-023-11	ELECT	100uF	20%	16V
C317	1-126-023-11	ELECT	100uF	20%	16V
C318	1-126-023-11	ELECT	100uF	20%	16V
C319	1-126-023-11	ELECT	100uF	20%	16V
C320	1-110-392-11	ELECT	47uF	20%	63V
C321	1-164-040-11	CERAMIC	4PF	0.25PF	50V (FE700R)
C321	1-113-496-11	POLYSTYRENE	4PF	10%	50V (FE900R)
C322	1-126-056-11	ELECT	1000uF	20%	50V (FE700R)
C322	1-109-871-11	ELECT	2700uF	20%	50V (FE900R)
C351	1-102-978-00	CERAMIC	220PF	5%	50V
C352	1-126-059-11	ELECT	10uF	20%	50V
C354	1-106-359-00	MYLAR	4700PF	5%	200V
C355	1-136-162-00	FILM	0.056uF	5%	50V (FE700R)
C355	1-130-341-00	FILM	0.056uF	3%	100V (FE900R)
C356	1-137-471-11	FILM	0.016uF	5%	50V (FE700R)
C356	1-130-971-00	FILM	0.016uF	3%	100V (FE900R)
C357	1-126-059-11	ELECT	10uF	20%	50V
C358	1-126-022-11	ELECT	47uF	20%	25V
C359	1-126-025-11	ELECT	330uF	20%	25V
C360	1-126-023-11	ELECT	100uF	20%	25V
C361	1-102-973-00	CERAMIC	100PF	5%	50V
C362	1-126-059-11	ELECT	10uF	20%	50V
C363	1-164-079-11	CERAMIC	330PF	10%	50V (FE700R)
C363	1-104-290-11	POLYSTYRENE	330PF	5%	50V (FE900R)
C365	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C366	1-126-023-11	ELECT	100uF	20%	16V
C367	1-126-023-11	ELECT	100uF	20%	16V
C368	1-126-023-11	ELECT	100uF	20%	16V
C369	1-126-023-11	ELECT	100uF	20%	16V

MAIN (A)

Ref. No.	Part No.	Description			Remark
C370	1-110-392-11	ELECT	47uF	20%	63V
C371	1-164-040-11	CERAMIC	4PF	0.25PF	50V (FE700R)
C371	1-113-496-11	POLYSTYRENE	4PF	10%	50V (FE900R)
C372	1-126-056-11	ELECT	1000uF	20%	50V (FE700R)
C372	1-109-871-11	ELECT	2700uF	20%	50V (FE900R)
		< CONNECTOR >			
CN301	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
CN302	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D301	8-719-310-60	LED SEL1510C-C			
D302	8-719-933-88	DIODE HZS16-2L			
D303	8-719-933-41	DIODE HZS6C3L			
D304	8-719-987-63	DIODE 1N4148M			
D305	8-719-987-63	DIODE 1N4148M			
D306	8-719-310-60	LED SEL1510C-C			
D307	8-719-987-63	DIODE 1N4148M			
D308	8-719-987-63	DIODE 1N4148M			
D309	8-719-987-63	DIODE 1N4148M			
D351	8-719-310-60	LED SEL1510C-C			
D352	8-719-933-88	DIODE HZS16-2L			
D353	8-719-933-41	DIODE HZS6C3L			
D354	8-719-987-63	DIODE 1N4148M			
D355	8-719-987-63	DIODE 1N4148M			
D356	8-719-310-60	LED SEL1510C-C			
D357	8-719-987-63	DIODE 1N4148M			
D358	8-719-987-63	DIODE 1N4148M			
D359	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC301	8-759-701-25	IC NJM2068D-D			
		< COIL >			
L301	1-411-925-11	COIL, AIR-CORE			
L351	1-411-925-11	COIL, AIR-CORE			
		< TRANSISTOR >			
Q301	8-729-354-52	TRANSISTOR 2SC2545			
Q302	8-729-354-52	TRANSISTOR 2SC2545			
Q303	8-729-281-54	TRANSISTOR 2SC1815-BL			
Q304	8-729-620-17	TRANSISTOR 2SC2259-FG			
Q305	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q306	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q307	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q308	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6			
Q309	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q310	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6			

Ref. No.	Part No.	Description			Remark
Q311	8-729-281-54	TRANSISTOR 2SC1815-BL			
Q312	8-729-281-54	TRANSISTOR 2SC1815-BL			
Q351	8-729-354-52	TRANSISTOR 2SC2545			
Q352	8-729-354-52	TRANSISTOR 2SC2545			
Q353	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q354	8-729-620-17	TRANSISTOR 2SC2259-FG			
Q355	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q356	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q357	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q358	8-729-021-74	TRANSISTOR 2SA949-OY-TPE6			
Q359	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q360	8-729-021-73	TRANSISTOR 2SC2229-OY-TPE6			
Q361	8-729-281-54	TRANSISTOR 2SC1815-BL			
Q362	8-729-281-54	TRANSISTOR 2SC1815-BL			
		< RESISTOR >			
R301	1-259-215-21	CARBON	100K	5%	1/4W
R302	1-249-911-11	CARBON	330	5%	1/4W
R303	1-259-215-21	CARBON	100K	5%	1/4W
R304	1-249-900-11	CARBON	110	1%	1/4W
R305	1-259-161-21	CARBON	560	5%	1/4W
R306	1-259-161-21	CARBON	560	5%	1/4W
R307	1-259-143-21	CARBON	100	5%	1/4W
R308	1-259-191-21	CARBON	10K	5%	1/4W
R309	1-249-844-11	CARBON	56K	1%	1/2W
R310	1-249-818-11	CARBON	4.7K	1%	1/2W
R311	1-259-167-21	CARBON	1K	5%	1/4W
R313	1-249-943-11	CARBON	6.8K	5%	1/4W
R314	1-249-198-11	CARBON	330	5%	1/3W
R315	1-249-198-11	CARBON	330	5%	1/3W
R316	1-249-198-11	CARBON	330	5%	1/3W
R317	1-249-198-11	CARBON	330	5%	1/3W
R318	1-259-167-21	CARBON	1K	5%	1/4W
R319	1-259-151-21	CARBON	220	5%	1/4W
R320	1-259-151-21	CARBON	220	5%	1/4W
R321	1-259-151-21	CARBON	220	5%	1/4W
R322	1-259-215-21	CARBON	100K	5%	1/4W
R323	1-259-179-21	CARBON	3.3K	5%	1/4W
R324	1-249-931-11	CARBON	2.2K	5%	1/4W
R325	1-259-444-11	CARBON	4.7K	5%	1/6W
R326	1-249-490-11	CARBON	27K	5%	1/3W
R327	1-259-151-21	CARBON	220	5%	1/4W
⚠R328	1-259-151-21	CARBON	220	5%	1/4W F
⚠R329	1-249-899-11	CARBON	100	5%	1/4W F
R330	1-247-749-11	CARBON	560	5%	1/2W
R331	1-249-496-11	CARBON	100K	5%	1/3W
R332	1-259-171-21	CARBON	1.5K	5%	1/4W
R333	1-259-167-21	CARBON	1K	5%	1/4W
R334	1-124-995-11	CARBON	1M	5%	1/4W
R335	1-259-143-21	CARBON	100	5%	1/4W
R351	1-259-215-21	CARBON	100K	5%	1/4W
R352	1-249-911-11	CARBON	330	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R353	1-259-215-21	CARBON	100K	5%	1/4W
R354	1-249-900-11	CARBON	110	1%	1/4W
R355	1-259-161-21	CARBON	560	5%	1/4W
R356	1-259-161-21	CARBON	560	5%	1/4W
R357	1-259-143-21	CARBON	100	5%	1/4W
R358	1-259-191-21	CARBON	10K	5%	1/4W
R359	1-249-844-11	CARBON	56K	1%	1/2W
R360	1-249-818-11	CARBON	4.7K	1%	1/2W
R361	1-259-167-21	CARBON	1K	5%	1/4W
R363	1-249-943-11	CARBON	6.8K	5%	1/4W
R364	1-249-198-11	CARBON	330	5%	1/3W
R365	1-249-198-11	CARBON	330	5%	1/3W
R366	1-249-198-11	CARBON	330	5%	1/3W
R367	1-249-198-11	CARBON	330	5%	1/3W
R368	1-259-167-21	CARBON	1K	5%	1/4W
R369	1-259-151-21	CARBON	220	5%	1/4W
R370	1-259-151-21	CARBON	220	5%	1/4W
R371	1-259-151-21	CARBON	220	5%	1/4W
R372	1-259-215-21	CARBON	100K	5%	1/4W
R373	1-259-179-21	CARBON	3.3K	5%	1/4W
R374	1-249-931-11	CARBON	2.2K	5%	1/4W
R375	1-259-444-11	CARBON	4.7K	5%	1/6W
R376	1-249-490-11	CARBON	27K	5%	1/3W
R377	1-259-151-21	CARBON	220	5%	1/4W
⚠R378	1-259-151-21	CARBON	220	5%	1/4W F
⚠R379	1-249-899-11	CARBON	100	5%	1/4W F
R380	1-247-749-11	CARBON	560	5%	1/2W
R381	1-249-496-11	CARBON	100K	5%	1/3W
R382	1-259-171-21	CARBON	1.5K	5%	1/4W
R383	1-259-167-21	CARBON	1K	5%	1/4W
R384	1-124-995-11	CARBON	1M	5%	1/4W
R385	1-259-143-21	CARBON	100	5%	1/4W

< VARIABLE RESISTOR >

RV301	1-241-762-11	RES, ADJ, CARBON 2.2K (BIAS L)	
RV351	1-241-762-11	RES, ADJ, CARBON 2.2K (BIAS R)	

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*	A-4389-803-A	MAIN (B) BOARD, COMPLETE (FE700R)			
*	A-4389-807-A	MAIN (B) BOARD, COMPLETE (FE900R)			

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< CAPACITOR >

C401	1-136-163-00	FILM	0.068uF	5%	50V
C402	1-136-163-00	FILM	0.068uF	5%	50V
C404	1-124-920-11	ELECT	330uF	20%	50V (FE900R)
C405	1-136-163-00	FILM	0.068uF	5%	50V
C406	1-126-923-11	ELECT	220uF	20%	10V
C407	1-136-157-00	FILM	0.022uF	5%	50V
C408	1-126-967-11	ELECT	47uF	20%	16V
C409	1-115-424-11	ELECT	10000uF	20%	50V (FE900R)

Ref. No.	Part No.	Description			Remark
C409	1-115-425-11	ELECT	8200uF	20%	50V (FE700R)
C411	1-126-967-11	ELECT	47uF	20%	50V
C412	1-126-970-11	ELECT	330uF	20%	50V
C413	1-124-903-11	ELECT	1uF	20%	50V
C414	1-137-420-11	MYLAR	0.047uF	5%	100V
C415	1-126-025-11	ELECT	330uF	20%	25V
C416	1-126-967-11	ELECT	47uF	20%	16V
C417	1-126-964-11	ELECT	10uF	20%	50V
C418	1-126-964-11	ELECT	10uF	20%	50V
C419	1-164-077-11	CERAMIC	220PF	10%	50V
C430	1-126-965-11	ELECT	22uF	20%	50V
C451	1-136-163-00	FILM	0.068uF	5%	50V
C452	1-136-163-00	FILM	0.068uF	5%	50V
C454	1-124-920-11	ELECT	330uF	20%	50V (FE900R)
C459	1-115-425-11	ELECT	8200uF	20%	50V (FE700R)
C459	1-115-424-11	ELECT	10000uF	20%	50V (FE900R)
C464	1-137-420-11	FILM	0.047uF	10%	100V (FE700R)
C465	1-126-025-11	ELECT	330uF	20%	25V
C468	1-126-967-11	ELECT	47uF	20%	50V
C469	1-164-077-11	CERAMIC	220PF	10%	50V

< CONNECTOR >

CN401	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
CN402	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
CN405	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
CN406	1-564-506-11	PLUG, CONNECTOR 3P	
CN407	1-564-506-11	PLUG, CONNECTOR 3P	
* CN403A	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P	
* CN404A	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	

< DIODE >

D401	8-719-024-99	DIODE	11ES2-NTA2B (FE700R)
D403	8-719-024-99	DIODE	11ES2-NTA2B (FE900R)
D404	8-719-024-99	DIODE	11ES2-NTA2B (FE900R)
D405	8-719-024-99	DIODE	11ES2-NTA2B (FE900R)
D406	8-719-024-99	DIODE	11ES2-NTA2B (FE900R)
D409	8-719-024-99	DIODE	11ES2-NTA2B
D410	8-719-024-99	DIODE	11ES2-NTA2B
D411	8-719-024-99	DIODE	11ES2-NTA2B
D412	8-719-302-38	DIODE	RBV-602-01
D413	8-719-933-39	DIODE	HZS6C1L
D451	8-719-024-99	DIODE	11ES2-NTA2B (FE700R)

< IC >

IC401	8-759-111-68	IC	uPC1237HA

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN (B) OUTLET PANEL

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q401	8-729-104-18	TRANSISTOR 2SC3514-Q				
Q402	8-729-104-91	TRANSISTOR 2SA1383				
Q403	8-729-232-45	TRANSISTOR 2SK1529-Y				
Q404	8-729-232-46	TRANSISTOR 2SJ200-Y				
Q405	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q406	8-729-209-15	TRANSISTOR 2SD2012				
Q407	8-729-281-54	TRANSISTOR 2SC1815-BL				
Q430	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q451	8-729-104-18	TRANSISTOR 2SC3514-Q				
Q452	8-729-104-91	TRANSISTOR 2SA1383				
Q453	8-729-232-45	TRANSISTOR 2SK1529-Y				
Q454	8-729-232-46	TRANSISTOR 2SJ200-Y				
Q455	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
		< RESISTOR >				
⚠R401	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R402	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R403	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R404	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R405	1-247-745-11	CARBON	330	5%	1/2W	F
⚠R406	1-208-601-11	WIREWOUND	0.1	10%	2W	F
⚠R407	1-208-601-11	WIREWOUND	0.1	10%	2W	F
R408	1-259-428-11	CARBON	1K	5%	1/6W	
R409	1-259-444-11	CARBON	4.7K	5%	1/6W	
R410	1-259-432-11	CARBON	1.5K	5%	1/6W	
R411	1-249-162-11	CARBON	10	5%	1/3W	
R412	1-259-488-11	CARBON	330K	5%	1/6W	
R413	1-259-452-11	CARBON	10K	5%	1/6W	
R414	1-259-484-11	CARBON	220K	5%	1/6W	
R415	1-259-460-11	CARBON	22K	5%	1/6W	
R416	1-259-480-11	CARBON	150K	5%	1/6W	
R417	1-259-456-11	CARBON	15K	5%	1/6W	
R418	1-259-444-11	CARBON	4.7K	5%	1/6W	
R420	1-259-460-11	CARBON	22K	5%	1/6W	
⚠R421	1-212-974-91	FUSIBLE	47	5%	1/2W (FE900R)	F
R430	1-259-452-11	CARBON	10K	5%	1/6W	
R431	1-259-470-11	CARBON	56K	5%	1/6W	
⚠R451	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R452	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R453	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R454	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R455	1-247-745-11	CARBON	330	5%	1/2W	F
⚠R456	1-208-601-11	WIREWOUND	0.1	10%	2W	F
⚠R457	1-208-601-11	WIREWOUND	0.1	10%	2W	F
R459	1-259-444-11	CARBON	4.7K	5%	1/6W	
R460	1-259-432-11	CARBON	1.5K	5%	1/6W	
R461	1-249-162-11	CARBON	10	5%	1/3W	
R462	1-259-488-11	CARBON	330K	5%	1/6W	

****

Ref. No.	Part No.	Description				Remark
*	1-660-573-11	OUTLET BOARD				
		**********				
		< JACK >				
⚠CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)				
⚠CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)				
⚠CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)				

****

*	A-4389-812-A	PANEL BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C200	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C201	1-136-153-00	FILM	0.01uF	5%	50V	
C202	1-136-155-00	FILM	0.015uF	5%	50V	
C203	1-136-165-00	FILM	0.1uF	5%	50V	
C208	1-130-471-00	MYLAR	0.001uF	5%	50V	
C209	1-136-171-00	FILM	0.33uF	5%	50V	
C210	1-136-165-00	FILM	0.1uF	5%	50V	
C250	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C251	1-136-153-00	FILM	0.01uF	5%	50V	
C252	1-136-155-00	FILM	0.015uF	5%	50V	
C253	1-136-165-00	FILM	0.1uF	5%	50V	
C258	1-130-471-00	MYLAR	0.001uF	5%	50V	
C259	1-136-171-00	FILM	0.33uF	5%	50V	
C260	1-136-165-00	FILM	0.1uF	5%	50V	
C900	1-126-964-11	ELECT	10uF	20%	50V	
C901	1-126-916-11	ELECT	1000uF	20%	6.3V	
C902	1-164-159-11	CERAMIC	0.1uF		50V	
C903	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C906	1-126-964-11	ELECT	10uF	20%	50V	
C909	1-128-551-11	ELECT	22uF	20%	63V	
C910	1-126-933-11	ELECT	100uF	20%	10V	
C912	1-126-964-11	ELECT	10uF	20%	50V	
		< CONNECTOR >				
CN455	1-691-768-11	PLUG (MICRO CONNECTOR) 6P				
CN900	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
CN901	1-691-766-21	PLUG (MICRO CONNECTOR) 4P				
CN902	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
* CN903	1-564-527-11	PLUG, CONNECTOR 12P				
* CNP900	1-568-318-21	PLUG, CONNECTOR 6P				
* CNP901	1-568-320-11	PLUG, CONNECTOR 8P				
CNP902	1-774-936-11	CONNECTOR, BOARD TO BOARD 12P				
		< DIODE >				
D902	8-719-987-63	DIODE 1N4148M				
D903	8-719-024-99	DIODE 11ES2-NTA2B				
D904	8-719-987-63	DIODE 1N4148M				
D905	8-719-987-63	DIODE 1N4148M				
D906	8-719-987-63	DIODE 1N4148M				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
D908	8-719-987-63	DIODE 1N4148M			
D909	8-719-987-63	DIODE 1N4148M			
D910	8-719-987-63	DIODE 1N4148M			
D911	8-719-987-63	DIODE 1N4148M			
D912	8-719-987-63	DIODE 1N4148M			
D913	8-719-985-59	DIODE HZS4CLL-TA			
D914	8-719-987-63	DIODE 1N4148M			
D915	8-719-987-63	DIODE 1N4148M			
D916	8-719-987-63	DIODE 1N4148M			
D919	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC901	8-759-962-08	IC BA6208			
IC902	8-759-392-41	IC TMP47C103N-JP47			
		< PHOTO COUPLER >			
PH900	8-719-902-56	PHOTO COUPLER PC817			
		< TRANSISTOR >			
Q900	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q901	8-729-900-63	TRANSISTOR DTA124ES			
Q902	8-729-900-63	TRANSISTOR DTA124ES			
Q903	8-729-900-80	TRANSISTOR DTC114ES			
Q904	8-729-422-57	TRANSISTOR UN4111			
Q905	8-729-422-57	TRANSISTOR UN4111			
Q906	8-729-422-57	TRANSISTOR UN4111			
Q907	8-729-119-78	TRANSISTOR 2SC403SP-51			
Q908	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q909	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q910	8-729-201-53	TRANSISTOR 2SA1015-GR			
Q911	8-729-142-36	TRANSISTOR BN1L3Z			
Q912	8-729-422-57	TRANSISTOR UN4111			
Q913	8-729-422-57	TRANSISTOR UN4111			
Q914	8-729-422-57	TRANSISTOR UN4111			
Q915	8-729-422-57	TRANSISTOR UN4111			
Q916	8-729-422-57	TRANSISTOR UN4111			
Q917	8-729-422-57	TRANSISTOR UN4111			
		< RESISTOR >			
R200	1-259-500-11	CARBON	1M	5%	1/6W
R201	1-259-446-11	CARBON	5.6K	5%	1/6W
R202	1-259-446-11	CARBON	5.6K	5%	1/6W
R203	1-259-436-11	CARBON	2.2K	5%	1/6W
R204	1-259-464-11	CARBON	33K	5%	1/6W
R205	1-259-446-11	CARBON	5.6K	5%	1/6W
R206	1-259-500-11	CARBON	1M	5%	1/6W
R207	1-259-456-11	CARBON	15K	5%	1/6W
R208	1-259-456-11	CARBON	15K	5%	1/6W
R209	1-259-500-11	CARBON	1M	5%	1/6W
R210	1-259-500-11	CARBON	1M	5%	1/6W
R220	1-259-464-11	CARBON	33K	5%	1/6W
R250	1-259-500-11	CARBON	1M	5%	1/6W

Ref. No.	Part No.	Description			Remark
R251	1-259-446-11	CARBON	5.6K	5%	1/6W
R252	1-259-446-11	CARBON	5.6K	5%	1/6W
R253	1-259-436-11	CARBON	2.2K	5%	1/6W
R254	1-259-464-11	CARBON	33K	5%	1/6W
R255	1-259-446-11	CARBON	5.6K	5%	1/6W
R256	1-259-500-11	CARBON	1M	5%	1/6W
R257	1-259-456-11	CARBON	15K	5%	1/6W
R258	1-259-456-11	CARBON	15K	5%	1/6W
R259	1-259-500-11	CARBON	1M	5%	1/6W
R260	1-259-500-11	CARBON	1M	5%	1/6W
R270	1-259-464-11	CARBON	33K	5%	1/6W
R419	1-249-429-11	CARBON	10K	5%	1/4W
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-429-11	CARBON	10K	5%	1/4W
R905	1-249-429-11	CARBON	10K	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-429-11	CARBON	10K	5%	1/4W
R910	1-249-400-11	CARBON	39	5%	1/4W
R911	1-249-411-11	CARBON	330	5%	1/4W
R912	1-249-429-11	CARBON	10K	5%	1/4W
R913	1-249-425-11	CARBON	4.7K	5%	1/4W
R914	1-247-807-31	CARBON	100	5%	1/4W
R916	1-247-751-11	CARBON	820	5%	1/2W
R917	1-249-433-11	CARBON	22K	5%	1/4W
R918	1-249-423-11	CARBON	3.3K	5%	1/4W
R919	1-249-423-11	CARBON	3.3K	5%	1/4W
R920	1-249-429-11	CARBON	10K	5%	1/4W
R921	1-249-429-11	CARBON	10K	5%	1/4W
R922	1-249-429-11	CARBON	10K	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
R924	1-249-429-11	CARBON	10K	5%	1/4W
R927	1-249-406-11	CARBON	120	5%	1/4W
R958	1-249-406-11	CARBON	120	5%	1/4W
		< VARIABLE RESISTOR >			
RV200	1-223-933-21	RES, VAR, CARBON 250K/250K (BALANCE)			
RV201	1-223-934-21	RES, VAR, CARBON 250K/250K (TREBLE)			
RV202	1-223-935-21	RES, VAR, CARBON 900K/900K (BASS)			
		< SWITCH >			
S200	1-571-828-11	SWITCH, PUSH (1 KEY)(SOURCE DIRECT)			
S201	1-762-387-11	SWITCH, PUSH (LOUDNESS)			
S202	1-571-112-21	SWITCH, PUSH (1 KEY)(SUBSONIC)			
S203	1-762-656-12	SWITCH, ROTARY (TAPE MONITOR)			
S901	1-692-974-11	SWITCH, ROTARY (INPUT SELECTOR)			
		< VIBRATOR >			
X900	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			

****

PRO IND **SP SW** **SP TM**

Ref. No.	Part No.	Description			Remark
*	1-660-561-11	PRO IND BOARD			
		**********			
		< CONNECTOR >			
CN951	1-691-766-21	PLUG (MICRO CONNECTOR) 4P			
		< DIODE >			
D900	8-719-313-48	LED SEL6210S-TH12 (PROTECTION)			
		< IC >			
IC900	8-759-373-49	IC NJL54H400			
		< RESISTOR >			
R900	1-249-409-11	CARBON	220	5%	1/4W
**********					
*	1-660-558-11	SP SW BOARD			
		**********			
		< CONNECTOR >			
CN552	1-691-771-11	PLUG (MICRO CONNECTOR) 9P			
CN950	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CN960	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D701	8-719-987-63	DIODE 1N4148M			
		< RESISTOR >			
R928	1-247-751-11	CARBON	820	5%	1/2W
R929	1-247-751-11	CARBON	820	5%	1/2W
R930	1-247-751-11	CARBON	820	5%	1/2W
R931	1-247-751-11	CARBON	820	5%	1/2W
R932	1-247-751-11	CARBON	820	5%	1/2W
R933	1-247-751-11	CARBON	820	5%	1/2W
R934	1-247-231-00	CARBON	430	5%	1/2W (FE700R)
R934	1-247-747-11	CARBON	470	5%	1/2W (FE900R)
R935	1-247-231-00	CARBON	430	5%	1/2W (FE700R)
R935	1-247-747-11	CARBON	470	5%	1/2W (FE900R)
R936	1-247-231-00	CARBON	430	5%	1/2W (FE700R)
R936	1-247-747-11	CARBON	470	5%	1/2W (FE900R)
R937	1-247-231-00	CARBON	430	5%	1/2W (FE700R)
R937	1-247-747-11	CARBON	470	5%	1/2W (FE900R)
R938	1-247-243-00	CARBON	1.3K	5%	1/2W
R939	1-247-243-00	CARBON	1.3K	5%	1/2W

Ref. No.	Part No.	Description			Remark
		< RELAY >			
RY701	1-515-614-11	RELAY			
		< SWITCH >			
S900	1-762-654-11	SWITCH, ROTARY SLIDE (SPEAKERS)			
**********					
*	1-660-571-11	SP TM BOARD			
		**********			
	1-533-233-11	HOLDER, FUSE			
		< CAPACITOR >			
C501	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN502	1-691-771-11	PLUG (MICRO CONNECTOR) 9P			
CN503	1-566-212-11	PIN, CONNECTOR 3P (EON CONTROL)			
CN802	1-564-321-00	PIN, CONNECTOR 2P			
CN804	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN808	1-564-321-21	PIN, CONNECTOR 2P			
* CN809	1-565-792-11	PIN, CONNECTOR 2P			
		< DIODE >			
D501	8-719-987-63	DIODE 1N4148M			
D502	8-719-987-63	DIODE 1N4148M			
		< FUSE >			
⚠F801	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)			
⚠F802	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)			
		< COIL >			
L501	1-411-906-11	COIL, AIR-CORE			
L551	1-411-906-11	COIL, AIR-CORE			
		< RESISTOR >			
R501	1-249-162-11	CARBON	10	5%	1/3W
R502	1-247-750-11	CARBON	680	5%	1/2W
R551	1-249-162-11	CARBON	10	5%	1/3W
R552	1-247-750-11	CARBON	680	5%	1/2W
		< RELAY >			
RY501	1-515-921-11	RELAY (12V)			
RY502	1-515-921-11	RELAY (12V)			
		< TERMINAL >			
* TM501	1-537-519-11	TERMINAL BOARD (SP)(SPEAKERS)			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
*	1-660-574-11	TRANS BOARD **********	
**********			
*	1-660-559-11	VOL BOARD **********	
		< CAPACITOR >	
C904	1-136-165-00	FILM 0.1uF 5% 50V	
		< CONNECTOR >	
CN201	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
CNJ900	1-568-317-11	SOCKET, CONNECTOR 6P	
CNJ901	1-568-319-11	SOCKET, CONNECTOR 8P	
		< VARIABLE RESISTOR >	
RV203	1-225-227-11	RES, VAR, CARBON 120K/120K (VOLUME)	
**********			
		MISCELLANEOUS **********	
54	1-533-233-11	HOLDER, FUSE	
⚠67	1-777-185-11	CORD, POWER	
⚠CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠F801	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
⚠F802	1-532-464-51	FUSE, TIME LUG(T2.5AL/250V)	
⚠S1	1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	
⚠T1	1-429-490-11	TRANSFORMER, POWER (FE900R)	
⚠T1	1-429-491-11	TRANSFORMER, POWER (FE700R)	
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	1-473-656-11	REMOTE COMMANDER (RM-S316)	
	3-856-216-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP)	
	3-856-216-21	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)	
	3-856-216-31	MANUAL, INSTRUCTION (GERMAN)(G)	
*	4-981-575-01	CUSHION	
	4-981-643-01	COVER, BATTERY (FOR RM-S316)	
*	4-982-292-01	INDIVIDUAL CARTON (FE900R)	
*	4-982-293-01	INDIVIDUAL CARTON (FE700R)	

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9-960-684-11

Sony Corporation
Home A&V Products Company

English
96E027547-1
Printed in Germany
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Published by Quality Engineering Dept.
(Shibaura)